Dipole, 2-Elements, other

AFA40

Phased Array Antenna

AFA series is phase array antenna designed to obtain the highest obtainable gain and F/B ratio based on 2-elements Yagi type of antenna. These high gain antennas manufactured under high tolerance specifications to meet the customers seeking thebest. All the models in this series offer practical weight and turning radius through the use of reduced size elements.

Vertical Antenna

CV48 is reduced type vertical antenna for 80, 75, 40 meter band. A loading capacitor hat makes it possible to efficiently by shortening the element on 7MHz. Only the unique structure of the trap in order to raise the Q by placing independently coil and capacitor of the 3.8MHz trap makes is possible to radiate RF energy most effectively. Optional remote controlled AD385 band adaptor enables to extend operation to 3.5MHz at the flip of switch.

Rotatable Dipole Antenna

CD78 is a reduced scale rotatable dipole antenna for 3.5/3.8MHz. The element length of antenna approximately 45% reduced to the full size, so that delivering a radiation efficiency is come out out within -2dB of its full-sized counterpart. The remotely controlled BS81 (BS81 for CD78L) 2-band and preselectable 4-channel network built-in including balun transformer standard offers the operation selectable either 3.8MHz or 3.5MHz at the fingertip.

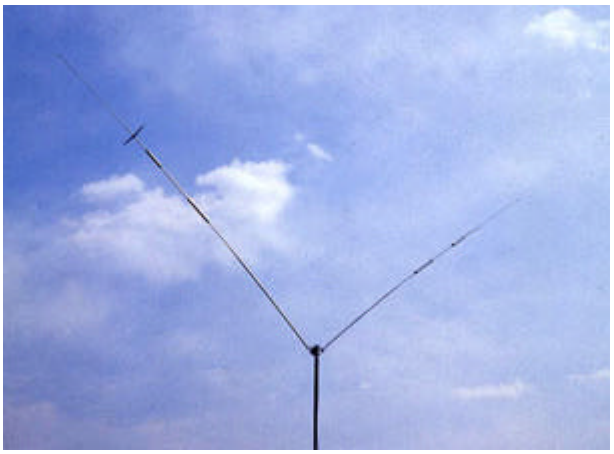
Model	AFA40	AFA40F	AFA30
Frequency (MHz)	7	7	10
No. of Element	2	2	2
Forward Gain (dBi)	7.5	7 ~ 9	7.5
F / B Ratio (dB)	20	20	20
Power Capability (PEP/kW)	3	4	2
Boom Length (m)	5.1	5.3	4.0
Element Length (m)	13.8	21.0	9.5
Element Diameter (mm)	35	40	30
Rotational Radius (m)	7.5	10.8	5.5
Mast Diameter (mm)	48 ~ 61	48 ~ 61	48 ~ 61
Wind Surface Area (m^2)	1.0	2	0.4
Weight (kg)	20.5	49.0	14.0
Recommended Rotator	RC5A-x	RC5A-x	RC5-x

Model	CV48	CD78(-5)	CD78L(-5)	CD78Jr
Frequency (MHz)	3.8/7	3.5 / 3.8	3.5/3.8	3.5/3.53/3.56/3.75/3.8
No. of Element	—	—	—	—
Forward Gain (dBi)	—	-1.5	-0.5	-2.0
F / B Ratio (dB)	—	—	—	—
Power Capability (PEP/kW)	2	2 (5)	3	1.6
Boom Length (m)	—	—	—	—
Element Length (m)	12.1	17.0	24.0	11.9
Element Diameter (mm)	50	40	50	35
Rotational Radius (m)	—	8.5	12.0	6.0
Mast Diameter (mm)	48 ~ 61	48 ~ 61	48 ~ 61	48 ~ 61
Wind Surface Area (m^2)	0.3	0.7	1.0	0.4
Weight (kg)	11.0	12.0	22.0	Element 6.0 Coupler 1.0
Recommended Rotator	—	RC5-x	RC5A-x	RC5-x

★ All the models include balun standard, and connector attached is type -M-.
★ Wind survival rating of all the modes is above 35m/s.
★ Option: AD385 (3.5MHz Adapter for CV48)

HF V-Dipole

High Radiation Efficiency, Horizontal Polarization
Easy Construction, Compact, Insensitive to Ambient Condition



Model	730V-1 (730V-1A)	730V-2 (730V-2A)	830V-1 (830V-1A)
Frequency (MHz)	7/14/21/28 (HF+50)	7/21/28 (HF+50)	10/18/24 (HF+50)
Power Capability (PEP/kW)	1/2/2/2	0.6/2/2	3/3/3
Element Length (m)	11.6	8.6	10
Rotational Radius (m)	4.1/90 °	3.0/90 °	4.9/90 °
Mast Diameter (mm)	42～61	42～61	42～61
Weight (kg)	5.5	4.5	5.0

★ All the models include balun that connector attached is type -M-. Power capability on 50MHz is 1 kW input.

★ 50MHz kit, 786C is optionally available (for upgrade for 730V-x, 830V-x)

Model 730V-x series is a compact V-type 4(3)-band dipole antenna with a figure 8-directivity pattern and is horizontally polarized. The shortest possible elements are used while still providing high radiation efficiency and broad band VSWR characteristics. The use of the V shape reduces the area needed for mounting the antenna and is insensitive to changes in height above the ground and surrounding metallic objects. These features allow the antenna to be installed at almost any site. The antenna is operable at a height of 2 - 3m or six or more feet above the ground. Due to the horizontal polarization and figure 8 pattern, the 730V-x is superior to the usual compact ground plane antenna, especially in respect to gain and TVI.
A high quality balun is included as a standard component of this high performing antenna. Model 730V-xA is the model that 50MHz is added to the standard type of 730V-x. In the meanwhile model 830V-1 (830V-1A) is a V-dipole antenna for WARC band operation of the frequency 10/18/24/50MHz) respectively.